

**NONCONFORMANCE REPORT**

NCR # 110815GMSc

Refer to Inspection Report # IR110816GMSO

**PRIORITY**

☐ Level 0 – Serious/Code Resolve Immediately

☐ Level 1 – Major Resolve within 14 days

☒ Level 2 – Minor Resolve within 30 days

☐ Level 3 (Shutdown) Resolve at next shutdown

☐ Internal (Husky)

☒ External (Contractor)

NCR Identified By Gareth Stafford

NCR to be Actioned By Marie Lafontaine

NCR to be Resolved By

**LOCATION & EQUIPMENT / PROCEDURE IDENTIFICATION**

Production District Sask West Facility Tangleflags LSD 04-18-051-25W3

Equipment Description Cooler Manufacturer Air Cooled Husky ID # 62048715

Exchangers

Prov. Registration # None CRN K-2766.2 Serial # 944411.4

**DESCRIPTION OF NONCONFORMANCE** (To be completed by person identifying the NCR) Please attach photos when applicable

This equipment does not have a valid CRN for the Province it is being utilized in.

**CAUSE OF NONCONFORMANCE** (To be completed by person identifying the NCR or person issuing the NCR)

☒ Noncompliance with Husky Integrity Program/Procedure

☐ Noncompliance with Husky Eng. Specs

☐ Other

☒ Noncompliance with Code, Act or Regulation

☐ B31.1 ☐ B31.3 ☐ Sect VIII ☐ Sect I

☐ Sect V ☐ CSA B51 ☐ Z662 ☐ Other

**PRELIMINARY REVIEW** (To be completed by Chief or Facility Inspector)

**Prior To Issuing, Nonconformity Has Been Discussed With**

☒ Operations ☐ Engineering ☐ Maintenance

NCR Issued By : Ray Trachuk

Chief Inspector - Level 0 & 3

Facility Lead Inspector - Level 1 & 2

Print

☐ Contractor

☐ Authorized Inspector

Signature

Date

**RECOMMENDED ACTION** (To be completed by person assigned to action the NCR)

☐ Scrap ☐ Use "As-Is" ☐ Repair ☐ Alteration ☐ Replace ☐ Return to Supplier

Describe actions required to resolve the NCR :

Has AB CRN and NB#. Submit LB-1010 to register data report + LB-0002 for LTO.

M LAFONTAINE

Prepared by (Please Print)

Signature

Date

**APPROVAL OF RECOMMENDED ACTION**

Required	Yes	No		Signature	Date
			<u>Ray Trachuk</u>	<u>Ray Trachuk</u>	<u>2011.10.07</u>
			Chief or Facility Lead Inspector (Please Print)		
			Tech Leader / Project Lead (Please Print)		
			Operations or Contractor (Please Print)		
			Authorized Inspector (Please Print)		

**DESCRIPTION OF RESOLUTION** (To be completed by person assigned to resolve the NCR)

Proof of Saskatchewan design registration obtained from manufacturer. Correspondence and SK stamped drawing attached.

**RESOLUTION & ACTION FOLLOW-UP**
**Resolution Completed**

☐ Acceptable ☐ Unacceptable ☐ Corrective Action Required

Identify if actions were acceptable or if additional actions are required :

Follow-up completed by (Please Print) \_\_\_\_\_ Signature \_\_\_\_\_ Date \_\_\_\_\_

Completed forms are to be e-mailed or faxed to : Ray Trachuk e-mail ray.trachuk@huskyenergy.ca Fax # (306)825-1159

Issued NCRs have been provided to : \_\_\_\_\_

NCR has been entered into database by : \_\_\_\_\_ Date : \_\_\_\_\_

## Marie Lafontaine

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**From:** Eric J. Munion [emunion@eadsaxc.com]  
**Sent:** Monday, April 01, 2013 2:24 PM  
**To:** Marie Lafontaine; 'Richard Sparkes'  
**Cc:** 'Rick Morrison'  
**Subject:** RE: Legacy Enerflex BTB Unit# 9431 (CL101614 - SWO71087) - Husky Oil Operations Ltd - Tangleflags SK LSD: 04-18-051-25-W3M - Request For Saskatchewan Registration Approval

Marie,

The header drawings and the CRN drawings are not numerically connected. The CRN shown on the U-1A is the connection. Let me know if you have any additional questions.

Regards,

Eric J. Munion

Eads Tulsa: Canadian Sales  
HARSCO INDUSTRIAL Air-X-Changers  
(918) 322-5200: Phone  
(918) 322-5206: Fax  
(918) 625-6239: Cell  
[www.harscoaxc.com](http://www.harscoaxc.com)

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**From:** Marie Lafontaine [<mailto:Marie.Lafontaine@huskyenergy.com>]  
**Sent:** Monday, April 01, 2013 2:52 PM  
**To:** Richard Sparkes; 'Eric J. Munion'  
**Cc:** Rick Morrison  
**Subject:** RE: Legacy Enerflex BTB Unit# 9431 (CL101614 - SWO71087) - Husky Oil Operations Ltd - Tangleflags SK LSD: 04-18-051-25-W3M - Request For Saskatchewan Registration Approval

Richard,

Thank you for the prompt reply and information. I've added the Saskatchewan registration documents to our electronic equipment files for the 2<sup>nd</sup> stage separator and cooler sn 944411.3 so the issue does not arise again.

Eric,  
I believe the Saskatchewan registration confirmation for K2766.23 would apply for both cooler gas sections (sn 944411.3 and sn 944411.4). The units have the same Alberta CRN which indicates they are the same design. The only issue I see is linking the registered drawing #98679 to the units as it doesn't match the drawing #'s referenced on the U-1A forms for the coolers:

- sn 944411.3 references drawing is #HDR-3 Rev1
- sn 944411.4 references drawing is #HDR-4 Rev2

Please send comments or the corresponding Saskatchewan registration documentation. If you can provide the Registration Approval letter from Saskatchewan to confirm it would be ideal.

Please let me know if you have any questions or want to discuss.

Thanks,  
Marie

**Marie Lafontaine**  
INTEGRITY INSPECTOR, EIT

Office: 306-820-4032  
Cell: 780-205-4820  
Fax: 306-825-1176  
4335 - 44<sup>St</sup>, Lloydminster, SK, S9V, 0Z8



---

**From:** Richard Sparkes [<mailto:rsparkes@enerflex.com>]  
**Sent:** Monday, April 01, 2013 10:09 AM  
**To:** Marie Lafontaine; 'Eric J. Munion'  
**Cc:** Rick Morrison  
**Subject:** Legacy Enerflex BTB Unit# 9431 (CL101614 - SWO71087) - Husky Oil Operations Ltd - Tangleflags SK LSD: 04-18-051-25-W3M - Request For Saskatchewan Registration Approval

Marie (306-820-4032),  
As per our phone conversation this morning please find in the attachments the Saskatchewan registration for the 2Stg Separator and the cooler IC-1 gas section (sn 944411.3 crn K2766.23). I could not find the Saskatchewan registration for the cooler AC section (sn 944411.4 crn K2766.23) so I will need to go back to Air-X-Changers and make a request for that document.

Eric (918-322-5200),  
I was able to find the Saskatchewan registration for the IC-1 gas section as per the attachment but was unable to find the AC gas section registration (sn 944411.4 crn K2766.23). Please provide the AC gas section registration that includes the province of Saskatchewan.

Regards

**Richard Sparkes**  
Product Support Representative  
Compression and Process

**ENERFLEX**

Enerflex Ltd.  
10121 Barlow Trail NE  
Calgary, AB, Canada T3J 3C6  
Phone: 403.236.6867  
Fax: 403.291.3443  
Cell: 403.510.8570  
Main Office: 403.291.3438  
Email: [rsparkes@enerflex.com](mailto:rsparkes@enerflex.com)  
Website: [www.enerflex.com](http://www.enerflex.com)

## Marie Lafontaine

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**Sent:** Monday, April 01, 2013 2:09 PM  
**To:** 'Richard Sparkes'; Marie Lafontaine  
**Cc:** 'Rick Morrison'  
**Subject:** RE: Legacy Enerflex BTB Unit# 9431 (CL101614 - SWO71087) - Husky Oil Operations Ltd - Tangleflags SK LSD: 04-18-051-25-W3M - Request For Saskatchewan Registration Approval  
**Attachments:** DOC130401-001.pdf

Richard,

The headers on the two gas cooling sections are identical from a design point of view. In light of this they are both covered by the same CRN. I have attached the U-1A reports showing this information. Please let me know if you need any additional information.

Regards,

Eric J. Munion

Eads Tulsa: Canadian Sales  
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(918) 322-5206: Fax  
(918) 625-6239: Cell  
[www.harscoaxc.com](http://www.harscoaxc.com)

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**From:** Richard Sparkes [<mailto:rsparkes@enerflex.com>]  
**Sent:** Monday, April 01, 2013 11:09 AM  
**To:** 'marie.lafontaine@huskyenergy.com'; 'Eric J. Munion'  
**Cc:** Rick Morrison  
**Subject:** Legacy Enerflex BTB Unit# 9431 (CL101614 - SWO71087) - Husky Oil Operations Ltd - Tangleflags SK LSD: 04-18-051-25-W3M - Request For Saskatchewan Registration Approval

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Regards

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Product Support Representative  
Compression and Process

**ENERFLEX**

Enerflex Ltd.

10121 Barlow Trail NE  
Calgary, AB, Canada T3J 3C6  
Phone: 403.236.6867  
Fax: 403.291.3443  
Cell: 403.510.8570  
Main Office: 403.291.3438  
Email: [rsparkes@enerflex.com](mailto:rsparkes@enerflex.com)  
Website: [www.enerflex.com](http://www.enerflex.com)

5049-74 Ave. SE Calgary AB Canada T2C 3H2  
Tel: 1 (403) 720-1635 Fax: 1 (403) 720-3765

**ENERFLEX  
RE-ENGINEERED  
SOLUTIONS**

**Fax**

**To:** Bruce Jack

**From:** Marius Jibeteanu

**Fax:** 7808752728

**Pages:** 2

**Phone:** 780-875-1683

**Date:** 06/11/03

**Re:** Cooler registration

**CC:**

**Urgent      For Review      Please Comment      Please Reply      Please Recycle**

Hi Bruce,

Here is the Saskatchewan registration for the cooler CRN. K 2766.23 / SN. 94411.3.

I will keep you informed about the progress on the scrubber. We are still waiting for the dwgs.

Regards,

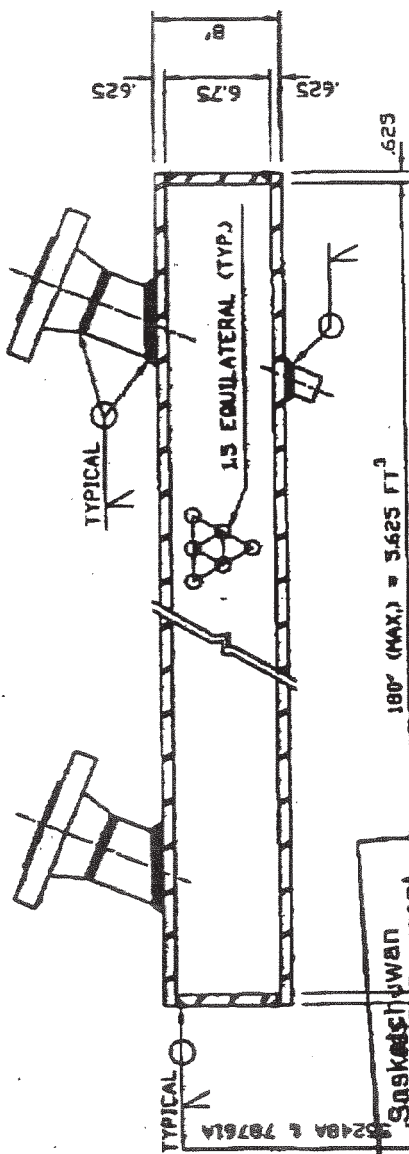
MARIUS



5 ABSO

# SPECIFICATIONS

- 1) TUBES - SA-214 WELDED STEEL - 625-OD, 16 B.V.G. WITH ALUMINUM SPIRAL FINS, SHLD. STL (SA-105)
- 2) ACCESS PLUGS - HEX HEAD .75 NF.
- 3) TUBE HOLES DRILLED AND REAMED TO .632" ±.002".
- 4) PLUG HOLES TAPPED FOR .75 NF.
- 5) ALL PLATE - SA-316-70 (NORMALIZED)
- 6) NOZZLES - 4"-300 R.F.V.N (SA-105) SCH. 80 BORE WITH 4" SCH. 80 PIPE (SA-106-B).
- 7) DESIGN PRESSURE - 681 P.S.I. @ 75 / - 80 ° F.
- 8) HYDROSTATIC TEST - 1022 P.S.I.
- 9) ALL WELDS - FULL PENETRATION.
- 10) SECTION DESIGNED, CONSTRUCTED, TESTED AND STAMPED IN STRICT ACCORDANCE WITH A1989 ASME, CODE, SECTION VIII, DIV. 1, APPX XIII. DESIGN REF: UCS-66(a) CURVE B.
- 11) TUBE HOLES ARE GROOVED PER TEMA C7.44.
- 12) CPLGS. - 1"-3000 # FULL (SA-105)
- 13) CORROSION ALLOWANCE - .0625.



CROSS SECTION - SIDE VIEW

ALBERTA LABOUR

General Safety Services Division  
BOILERS & PRESSURE VESSELS ACT

REG No K 2768

11/11/79

Design Temp. °C

11/11/79

11/11/79

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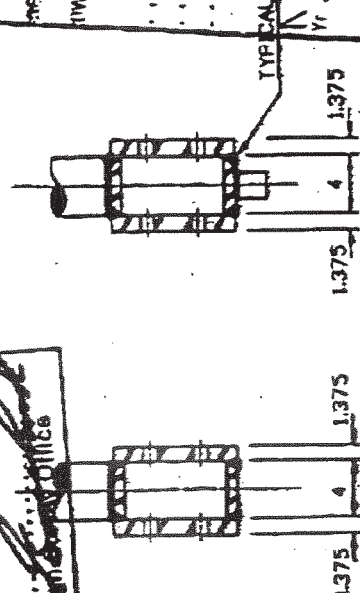
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11/11/79

Saskatchewan  
Provincial Government  
Boiler & P.V. Safety  
Unit  
CRN 11/11/79  
FILE 11/11/79

REGISTERED  
11/11/79

11/11/79



CROSS SECTION - END VIEW

CANADIAN REGISTRATION DRAWING

NEXT ASSY	AIR-X-CHANGERS
98580	TULSA, OKLAHOMA
REF DVGS	DETAIL OF IC-1 HEADERS
BY	FITZ CHKD B
DATE	10/12/90
APPD	DATE
SCALE	NONE
DWG #	98679
REV	
CHERO	JOB 904514

**Air-X-Changers**

Harsco

**Fax Transmittal**

Plant Address:  
5215 Arkansas Rd  
Catoosa, OK 74015

6700 MacLeod Trail SW  
Suite 290  
Calgary, Alberta Canada  
T2H0L3  
Telephone: 403.537.6733  
Fax: 403.537.6734  
Web: www.airx.com

TO: Emily Wong

OF: Enerflex-15

FAX NUMBER: 720-3765

FROM: Eric Munion

PAGES (including cover): 2

SUBJECT: Proof of Saskatchewan Reg.

☐ Original correspondence will be forwarded by mail ☒ Original correspondence will NOT be forwarded by mail

## CONFIDENTIALITY NOTICE

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